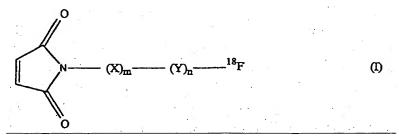
## ABSTRACT

Fluorine-18-labelled maleimide compounds of general formula (I):



in which:

- m represents an integer from 0 to 10;
- n represents an integer from 1 to 10;
- Y represents a group selected from optionally substituted monocyclic or bicyclic heterocyclic groups;
  - X represents a radical of formula:

$$(U)_{a} - ((CR_{1}R_{2})_{b} - (V)_{c})_{d} - ((CR_{3}R_{4})_{e} - (W)_{f})_{g} -$$

in which:

- a, b, c, d, e, f and g represent each independently an integer from 0 to 10;
  - U, V and W represent each independently

Process for preparing these compounds; their use for labelling macromolecules, and complexes of these compounds with a macromolecule.

Detection and analysis kit, or diagnosis kit, comprising the said complexes.

Use of the complexes in a medical imaging process such as positron emission tomography (PET).